Patent Claims:

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Procedure for the replicative fabrication and packaging of at least one microstructured molded part in form of one magazine/molded part composite,

characterized by the following process steps:

- a. Replicative fabrication of at least one microstructured molded part (1, 3, 10) using an initially closed tool (4) which consists of at least one first and one second tool half (4a, 4b);
- b. Opening of both tool halves (4a, 4b), whereby the molded part (1, 3, 10) remains in the first tool half (4a);
- c. Replacing at least the second tool half (4b) with at least one additional tool half (4c);
- d. Replicative fabrication of the magazine (12) using the first tool half (4a) which contains the molded part (1, 3, 10) and the additional tool half (4c);
- e. Simultaneous demolding of the magazine (12) and the molded part (1, 3, 10) as one magazine/molded part composite (15).
- 2. Procedure for the replicative fabrication and packaging of at least one microstructured molded part as one magazine/molded part composite,

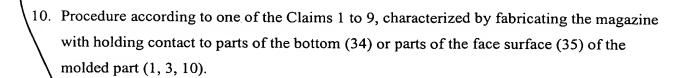
characterized by the following process steps:

- a. Replicative fabrication of the magazine (12) using an initially closed tool (5) which consists of at least one first and one second tool half (5a, 5b);
- b. Opening of both tool halves (5a, 5b), whereby the magazine (12) remains in the first tool half (5a);



- c. Replacing at least the second tool half (5b) with at least one additional tool half (5c);
- d. Replicative fabrication of at least one microstructured molded part (1, 3, 10) using the first tool half (5a) which contains the magazine (12) and the additional tool half (5c);
- Simultaneous demolding of the magazine (12) and the molded part (1, 3, 10) as one magazine/molded part composite (15).
- 3. Procedure according to Claim 1 or 2, characterized by using at least one microstructured mold insert (8a, 8a', 8b, 8b', 8c) for fabrication of the magazine (12) and/or the molded part (1, 3, 10) in the tool (4, 5).
- 4. Procedure according to one of the claims 1 to 3, characterized by fabricating the molded part (1, 3, 10) and the magazine (12) with different physical heights.
- 5. Procedure according to one of the Claims 1 to 4, characterized by fabricating the magazine (12) with a lateral overhang (16) in comparison to the horizontal dimension of the molded part (1, 3, 10).
- 6. Procedure according to one of the Claims 1 to 5, characterized by fabricating the magazine (12) with a holding contact to parts of the side surfaces (18a, 18a', 18b, 18b', 19a, 19b, 19c) of the molded part (1,3, 10).
- 7. Procedure according to one of the Claims 1 to 6, characterized by fabricating the magazine (12) with a holding contact to the microstructures (14) of the molded parts (1, 3, 10).
- 8. Procedure according to one of the Claims 1 to 7, characterized by fabricating the magazine (12) with recesses (17).
- 9. Procedure according to one of the Claims 1 to 8, characterized by fabricating the magazine with holding contact to the bottom (34) or face surface (35) of the molded part (1, 3, 10).

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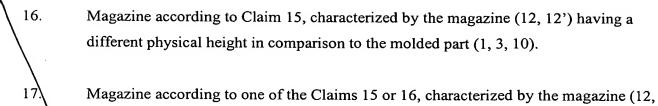


- 11. Procedure according to one of the Claims 1 to 10, characterized by fabricating the molded part (1, 3, 10) and the magazine (12) with the same or with different mold materials.
- 12. Prodedure for the replicative fabrication and packaging of at least one microstructured molded part as one magazine/molded part composite,

characterized by the following process steps:

- a. Replicative fabrication of at least one microstructured molded part (1, 3, 10) using a prefabricated magazine (12');
- b. Simultaneous demolding of the magazine (12') and the molded parts (1, 3, 10) as one magazine/molded part composite (15').
- Procedure according to Claim 12, characterized by using a split tool (6) which consists of at least one first and one second tool half (6a, 6b).
- 14. Procedure according to Claim 12 or 13, characterized by using a prefabricated magazine (12') that is a magazine (12) fabricated according to Claim 1 or 2 after removal of the microstructured molded parts (1, 3, 10).
- Magazine with at least one microstructured molded part which exists as a prefabricated magazine/molded part composite (15, 15'), characterized by the magazine (12, 12') connecting to the molded part (1, 3, 10) on at least one area of its surface (1a, 1b, 14, 18a, 18a', 18b, 18b', 19a, 19b, 19c, 34, 35) by holding contact.





18b, 18b', 19a, 19b, 19c).

Magazine according to one of the Claims 15 to 17, characterized by the magazine (12, 12') having a wafer form (13) in the usual standard for semi-conductor technology.

12') connecting to the molded part (1, 3, 10) at parts of its side surfaces (18a, 18a',

- Magazine according to one of the Claims 15 to 18, characterized by the magazine (12, 12') connecting to the molded part (1, 3, 10) at its microstructures (14).
- Magazine according to one of the Claims 15 to 19, characterized by the magazine (12, 12') is adjoining the side surfaces (18a, 18b, 18c, 19a, 19b, 19c) of the molded part (1, 3, 10) and has at least one recess (17).
- Magazine according to one of the Claims 15 to 20, characterized by the magazine (12, 12') connecting across the entire bottom (34) or face surface (35) of the molded part (1, 3, 10).
- Magazine according to one of the Claims 15 to 21, characterized by the magazine (12, 12') connecting to parts of the bottom (34) or parts of the face surface (35) of the molded part (1, 3, 10)
- Magazine according to one of the Claims 15 to 22, characterized by the magazine (12, 12') and the molded part (1, 3, 10) being fabricated replicatively according to the type of procedure in Claim 1 or 2.

Magazine according to one of the Claims 15 to 23, characterized by the magazine (12, 12') being reusable as prefabricated magazine after removal of the microcomponents (1, 3, 10) in the procedure according to Claim 12.

25. Magazine according to one of the Claims 15 to 24, characterized by the magazine (12, 12') connects to equally spaced multiple molded parts (1, 3, 10).